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density determinations contained in this paper, and more especially in those "On some of the products of the Destructive Distillation of Boghead Coal," the author has so repeatedly had to ascertain the value of the expression $\frac{1}{1+0.00367T}$, that he was induced to calculate it once for all for each degree of the Centigrade thermometer from 1° to 150°. As it is always easy so to manipulate as to prevent the value of T falling between the whole numbers, the Table proved a most valuable means of saving time; the author has therefore appended it to his paper in the hope of its proving equally useful to other working chemists.

- V. "On the Thermal Effects of Fluids in Motion—Temperature of Bodies moving in Air." By J. P. JOULE, LL.D., F.R.S., and Professor W. THOMSON, LL.D., F.R.S.
Received June 21, 1860.

(Abstract.)

An abstract of a great part of the present paper has appeared in the 'Proceedings,' vol. viii. p. 556. To the experiments then adduced a large number have since been added, which have been made by whirling thermometers and thermo-electric junctions in the air. The result shows that at high velocities the thermal effect is proportional to the square of the velocity, the rise of temperature of the whirled body being evidently that due to the communication of the velocity to a constantly renewed film of air. With very small velocities of bodies of large surface, the thermal effect was very greatly increased by that kind of fluid friction the effect of which on the motion of pendulums has been investigated by Professor Stokes.

- VI. "On the Distribution of Nerves to the Elementary Fibres of Striped Muscle." By LIONEL S. BEALE, M.B., F.R.S., Professor of Physiology and of General and Morbid Anatomy in King's College, London, and Physician to King's College Hospital. Received June 19, 1860.

(Abstract.)

After alluding to the general opinions entertained with respect to